## Claims

1. N-benzyl-p-phenylenediamine derivatives of the general Formula (I)

or their physiologically compatible, water-soluble salts

in which

R1

R1 is hydrogen, a  $(C_1-C_4)$  alkyl group or a hydroxy- $(C_1-C_4)$  alkyl group,

R2

is hydrogen, a halogen atom (F, Cl, Br, I), a cyano group, a (C<sub>1</sub>-C<sub>4</sub>) alkoxy group, a hydroxy (C<sub>1</sub>-C<sub>4</sub>) alkoxy group, a (C<sub>1</sub>-C<sub>6</sub>) alkyl group, a (C<sub>1</sub>-C<sub>4</sub>) alkyl thioether group, a mercapto group, a nitro group, an amino group, a (C<sub>1</sub>-C<sub>4</sub>) alkylamino group, a di-(C<sub>1</sub>-C<sub>4</sub>) alkylamino group, a di-(hydroxy-(C<sub>1</sub>-C<sub>4</sub>)-alkyl) amino group, a (hydroxy-(C<sub>1</sub>-C<sub>4</sub>)-alkyl) amino group, a -C(O)CH<sub>3</sub> group, a -C(O)CF<sub>3</sub> group, an -Si(CH<sub>3</sub>)<sub>3</sub> group, a hydroxy-(C<sub>1</sub>-C<sub>4</sub>) alkyl group, a dihydroxy-(C<sub>3</sub>-C<sub>4</sub>) alkyl group or a morpholino group

R3, R4

independently of one another are hydrogen, a halogen atom, a hydroxy group, a  $(C_1-C_4)$  alkoxy group, a hydroxy- $(C_1-C_4)$  alkoxy group, a  $(C_1-C_4)$  alkyl group, a  $(C_1-C_4)$  alkyl thioether group, a mercapto group, an amino group, a  $(C_1-C_4)$  alkylamino group, a di- $(C_1-C_6)$  alkylamino group, a hydroxy- $(C_1-C_4)$ -alkyl)amino group, a hydroxy- $(C_1-C_4)$ 

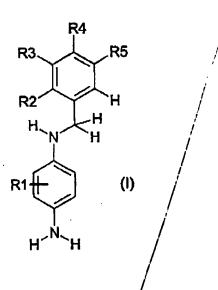
alkylamino group, a trifluoromethane group, an acetamido group, a  $-C(O)CH_3$  group, a  $-C(O)CF_3$  group, an  $-Si(CH_3)_3$  group, a hydroxy- $(C_1-C_4)$  alkyl group or a dihydroxy- $(C_3-C_4)$  alkyl group or R3 and R4 together form an -O-CH2-O- bridge and

is hydrogen, a hydroxy group or a  $(C_1-C_6)$  alkyl grøup,

with the proviso that

R5

- (i) at least one of the R2 to R5 groups is different from a hydrogen and
- (ii) R1 is not hydrogen or a (C1-C4) alkyl group when R2 = R4 = R5 = hydrogen and R3 = chlorine and
- ((iii) R4 is not a nitro group, a methyl group, a hydroxy group, an amino group, a dimethylamino group, a bromine atom or a chlorine atom when R1 = R2 = R3 = R5 = hydrogen.
  - 2. Compounds of Formula (I) are preferred in which
- (i) R1 and one of the groups R2 to R5 is hydrogen and/or
- (ii) three of the R1 to R5 groups are hydrogen and the two remaining groups, independently of one another, represent hydrogen, a methoxy group, a hydroxy group or an amino group or, in the case of R3 and R4, jointly form an -O-CH2-O bridge, in which case R2 is not a hydroxy group and at least one of the R2 to R5 groups is not hydrogen; and/or
- (iii) four of the R1 to R5 groups are hydrogen and the fifth group is a methoxy group, a hydroxy group or an amino group, R2 not being a hydroxy group and at least one of the R2 to R5 groups being different from hydrogen.
- 3. An agent for dyeing keratin fibers based on a combination of developer and coupler, wherein, as developer, at least one N-benzyl-p-phenylenediamine derivative of Formula (I) or its physiologically compatible, water soluble salt is contained



in which

R1

R2

R1 is hydrogen, a  $(C_1-C_4)$  alkyl group/or a hydroxy- $(C_1-C_4)$  alkyl group is hydrogen, a halogen atom (F, Cf, Br, I), a cyano group, a (C<sub>1</sub>-C<sub>4</sub>) alkoxy group, a hydroxy ( $C_1$ - $C_4$ ) alkoxy group, a ( $C_1$ - $C_6$ ) alkyl group, a (C<sub>1</sub>-C<sub>4</sub>) alkyl thioether group/a mercapto group, a nitro group, an amino group, a (C<sub>1</sub>-C<sub>4</sub>) alkylamino group, a di-(C<sub>1</sub>-C<sub>4</sub>) alkylamino group, a di-(hydroxy- $(C_1-C_4)$ -kyl) amino group, a (hydroxy- $(C_1-C_4)$ alkyl) amino group, a trifluoromethane group, a -C(O)CH<sub>3</sub> group, a -C(O)CF<sub>3</sub> group, an -Si(CH<sub>3</sub>)<sub>3</sub> group, a hydroxy-(C<sub>1</sub>-C<sub>4</sub>) alkyl group, a dihydroxy-(C<sub>3</sub>-C<sub>4</sub>) alkyl group or a morpholino group

R3, R4

independently of one another are hydrogen, a halogen atom, a hydroxy group, a (C<sub>1</sub>-C<sub>4</sub>) alkoxy/group, a hydroxy-(C<sub>1</sub>-C<sub>4</sub>) alkoxy group, a (C<sub>1</sub>- $C_6$ ) alkyl group, a  $(C_1/C_4)$  alkyl thioether group, a mercapto group, an amino group, a  $(C_1/C_6)$  alkylamino group, a di- $(C_1-C_6)$  alkylamino group, a di-(hydrox $\sqrt[4]{-(C_1-C_4)}$ -alkyl) amino group, a hydroxy-( $C_1-C_4$ ) alkylamino group, a trifluoromethane group, an acetamido group, a  $-C(O)CH_3$  group,  $\not a$   $-C(O)CF_3$  group, an  $-Si(CH_3)_3$  group, a hydroxy- $(C_1-C_4)$  alkyl group or a dihydroxy- $(C_3-C_4)$  alkyl group or R3 and R4 together form an/-O-CH2-O- bridge and

is hydrogen, a Hydroxy group or a (C<sub>1</sub>-C<sub>6</sub>) alkyl group, R5

## with the proviso that

- (i) at least one of the R2 to R5 groups is different from a hydrogen and
- (ii) R1 is not hydrogen or a (C1-C4) alkyl group when R2 = R4 = R5 = hydrogen and R3 = chlorine.
- 4. The agent of claim 3, wherein
- (i) R1 and one of the groups R2 to R5 is hydrogen and or
- (ii) three of the R1 to R5 groups are hydrogen and the two remaining groups, independently of one another, represent hydrogen, or methoxy group, a hydroxy group or an amino group or, in the case of R3 and R4, jointly form an -O-CH2-O bridge, in which case R2 is not a hydroxy group and at least one of the R2 to R5 groups is not hydrogen; and/or
- (iii) four of the R1 to R5 groups are hydrogen and the fifth group is a methoxy group, a hydroxy group or an amino group, R2 not being a hydroxy group and at least one of the R2 to R5 groups being different from hydrogen, with the proviso that at least one of the R2 to R5 groups is different from hydrogen.
- 5. The agent of claims  $\beta$  or 4, wherein the compound of Formula (I) is comprising : N-((3-hydroxyphenyl)methyl)-1,4selected the group from N-((4-aminophenyl)methyl)-1,4-diaminobenzene; N-((4diaminobenzene; hydroxyphenyl)-methyl)-1,4-diam/nobenzene; N-((2-methoxyphenyl)methyl)-1,4diaminobenzene; N-((4-hydrox/y-3,5-dimethyl-phenyl)methyl)-1,4-diaminobenzene; N-((4-(2-hydroxyethoxy)-pheny))methyl)-1,4-diaminobenzene; N-benzo[1,3]dioxol-N-{4-[(4-aminophenylamino)-methyl]-phenyl}-5-ylmethyl-1,4-diaminobenzene; acetamide and N-((4-methox/phenyl)-methyl)-1,4-diaminobenzene, as well as their physiologically compatible salts.
- 6. The agent of one of the claims 3 to 5, wherein the N-benzyl-p-phenylenediamine derivative of Formula (I) is contained in an amount of 0.005 to 20 percent by weight.

7. The agent of one of the claims 3 to 6, wherein the agent has a pH of 6.5 to 11.5.

8. The agent of one of the claims 3 to 7, wherein the coupler is selected from the group comprising 2,6-diaminopyridine, 2-amino-4-[(2-hydroxyethyl)amino]-2,4-diamino-1-fluoro-5-methylbenzene,/ 2,4-diamino-1-methoxy-5anisole, 2,4-diamino-1-ethoxy-5-methylbenzene, methylbenzene, 2,4-diamino-1-(2-2,4-di[(2-hydroxyethyl)amino]-1,5hydroxyethoxy)-5-methylbenzene, 2,3-diamino-6-methoxy-pyridine, 3-amino-6-methoxy-2dimethoxybenzene, 2,6-diamino-3,5-dimethoxy-pyridine, (methylamino)-pyridine, 3,5-diamino-2,6dimethoxy-pyridine, 1,3-diaminobenzene, 2,4/diamino-1-(2-hydroxyethoxy)-benzene, 2,4-diamino-1,5-di(2-hydroxyethoxy)-benzerie, 1-(2-aminoethoxy)-2,4-2-amino-1-(2-hydrox/yethoxy)-4-methylaminobenzene, diaminobenzene, 2,4diaminophenoxyacetic acid, 3-[di(2-hydroxyethyl)amino]-aniline, 4-amino-2-di[(2hydroxyethyl)aminol-1-ethoxybenzene, / 5-methyl-2-(1-methylethyl)-phenol, 3-[(2hydroxyethyl)aminol-aniline,  $\Im(2-\text{aminoethyl})-\text{amino}]-\text{aniline}$ 1.3-di(2.4di(2,4-diaminophenoxy)-methane, diaminophenoxy)-propahe, 1,3-diamino-2,4dimethoxybenzene, 2,6-bis(2-hydroxyethyl)amino toluene, 4-hydroxyindole, 3dimethylaminophenol, 3-diethylaminophenol, 5-amino-2-methylphenol, 5-amino-4fluoro-2-methylphenol, 5-amino/4-methoxy-2-methylphenol, 5-amino-4-ethoxy-2methylphenol, 3-amino-2,4-dichlorophenol, 5-amino-2,4-dichlorophenol, 3-amino-2-3-amino-2-chloro-6-methylphenol, 2-[(3methylphenol, 3-aminophenol, hydroxyphenyl)amino]-acetam/de, 5-[(2-hydroxyethyl)amino]-2-methylphenol, 3-[(2-3-[(2-methoxyethyl)-amino]-phenol, hydroxyethyl)amino]-phenol/ 5-amino-2ethylphenol, 2-(4-amino-2-l/ydroxyphenoxy)-ethanol, 5-[(3-hydroxypropyl)amino]-2-3-[(1,3-dihydroxypropyl)amino]-2-methylphenol, 3-[(2methylphenol, hydroxyethyl)amino]-2-methylphenol, 5-amino-4-2-amino-3-hydroxy-pyridine, chloro-2-methylphenol, / 1-naphthol, 1,5-dihydroxy-naphthalene, 1,7-dihydroxynaphthalene, 2,3-dihydroxy-naphthalene, 2,7-dihydroxy-naphthalene, 2-methyl-1naphthol acetate, 1,3-dihydroxybenzene, 1-chloro-2,4-dihydroxybenzene, 2-chloro-1,3-dihydroxybenzene, 1,2-dichloro-3,5-dihydroxy-4-methylbenzene, 1,5-dichloro-2,4-dihydroxybenzene, 1,3-dihydroxy-2-methylbenzene, 3,4-methylenedioxy-phenol, 3,4-methylenedioxy-aniline, 5-[(2-hydroxyethyl)amino]-1,3-benzodioxol, 6-bromo-1-hydroxy-3,4-methylenedioxy-benzene, 3,4-diamino-benzoic acid, 3,4-dihydro-6-hydroxy-1,4(2H)-benzoxazine, 6-amino-3,4-dihydro-1,4(2H)-benzoxazine, 3-methyl-1-phenyl-5-pyrazolone, 5,6-dihydroxy-indole, 5,6-dihydroxy-indoline, 5-hydroxy-indole, 6-hydroxy-indole, 7-hydroxy-indole and 2,3-indolinedione.

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